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In the Claims

1. (Currently Amended) A method for transmitting data ~~in real time~~ from a sender to a receiver in a digital communications network, comprising the steps of:
maintaining an estimate of bandwidth available from the sender to the receiver;
and
adjusting the data for transmission in real time based on the estimate in order to maintain ~~real time~~ a proper time sequence of data received by the receiver transmission.
2. (previously presented) The method according to claim 1, wherein the data comprises compressed video data.
3. (Original) The method according to claim 1, wherein maintaining the estimate of bandwidth comprises monitoring of packet loss based on acknowledgments from the receiver.
4. (Original) The method according to claim 1, wherein, in maintaining the estimate of bandwidth, the sender maintains a count of packets outstanding.
5. (Original) The method according to claim 4, wherein, in maintaining the estimate of bandwidth, the sender maintains current an upper bound on how many packets are allowed to be outstanding.
6. (Original) The method according to claim 5, wherein the upper bound is as specified by the TCP congestion window.
7. (Original) The method according to claim 1, wherein, in maintaining the estimate of bandwidth, the sender maintains a count of bytes outstanding.
8. (Original) The method according to claim 7, wherein, in maintaining the estimate of bandwidth, the sender maintains current an upper bound on how many bytes are allowed to be outstanding.
9. (Original) The method according to claim 8, wherein the upper bound is as specified by the TCP congestion window.

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10. (Original) The method according to claim 1, further comprising retransmitting a packet which has been determined by the receiver as having been lost in transmission or received with an error.

11. (Original) The method according to claim 1, further comprising adapting bandwidth required by the data.

12. (Original) The method according to claim 1, further comprising discriminating between packets lost due to congestion in the network and packets received with at least one bit error.

13. (Currently Amended) A system for transmitting data ~~in real time~~ from a sender to a receiver in a digital communications network, comprising:

means for maintaining an estimate of bandwidth available from the sender to the receiver; and

means for adjusting the data for transmission in real time based on the estimate in order to maintain real time a proper time sequence of data received by the receiver transmission.

14. (previously presented) The system according to claim 13, wherein the data comprises compressed video data.

15. (Original) The system according to claim 13, wherein the means for maintaining the estimate of bandwidth comprises means for monitoring of packet loss based on acknowledgments from the receiver.

16. (Original) The system according to claim 13, wherein the means for maintaining the estimate of bandwidth comprises means for maintaining a count of packets outstanding.

17. (Original) The system according to claim 16, wherein the means for maintaining the estimate of bandwidth comprises means for maintaining current an upper bound on how many packets are allowed to be outstanding.

18. (Original) The system according to claim 17, wherein the upper bound is as specified by the TCP congestion window.

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19. (Original) The system according to claim 13, wherein the means for maintaining the estimate of bandwidth comprises means for maintaining a count of bytes outstanding.

20. (Original) The system according to claim 19, wherein the means for maintaining the estimate of bandwidth comprises means for maintaining current an upper bound on how many bytes are allowed to be outstanding.

21. (Original) The system according to claim 20, wherein the upper bound is as specified by the TCP congestion window.

22. (Original) The system according to claim 13, further comprising means for retransmitting a packet which has been determined by the receiver as having been lost in transmission or received with an error.

23. (Original) The system according to claim 13, further comprising means for adapting bandwidth required by the data.

24. (Original) The system according to claim 13, further comprising means for discriminating between packets lost due to congestion in the network and packets received with at least one bit error.

25. (Currently Amended) A system for transmitting data ~~in real time~~ from a sender to a receiver in a digital communications network, comprising a processor which is instructed for:
maintaining an estimate of bandwidth available from the sender to the receiver;
and

adjusting the data for transmission in real time based on the estimate in order to maintain a proper time sequence of data received by the receiver transmission.

26. (previously presented) The system according to claim 25, wherein the data comprises compressed video data.

27. (Original) The system according to claim 25, wherein maintaining the estimate of bandwidth comprises monitoring of packet loss based on acknowledgments from the receiver.

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28. (Original) The system according to claim 25, wherein, in maintaining the estimate of bandwidth, the sender maintains a count of packets outstanding.

29. (Original) The system according to claim 28, wherein, in maintaining the estimate of bandwidth, the sender maintains current an upper bound on how many packets are allowed to be outstanding.

30. (Original) The system according to claim 29, wherein the upper bound is as specified by the TCP congestion window.

31. (Original) The system according to claim 25, wherein, in maintaining the estimate of bandwidth, the sender maintains a count of bytes outstanding.

32. (Original) The system according to claim 31, wherein, in maintaining the estimate of bandwidth, the sender maintains current an upper bound on how many bytes are allowed to be outstanding.

33. (Original) The system according to claim 32, wherein the upper bound is as specified by the TCP congestion window.

34. (Original) The system according to claim 25, wherein the processor is instructed further for retransmitting a packet which has been determined by the receiver as having been lost in transmission or received with an error.

35. (Original) The system according to claim 25, wherein the processor is instructed further for adapting bandwidth required by the data.

36. (Original) The system according to claim 25, wherein the processor is instructed further for discriminating between packets lost due to congestion in the network and packets received with at least one bit error.